

North South University
CSE 115: Programming Language I

Total Marks: 50

Time: 75 min

1	Write down a function to toggle CASE of each character of a string. For example, if the given input is “AbCd56gH”, then it produces “aBcD56Gh”.	10										
2	Consider int num[10][4] holds the four quiz marks of a class of 20 students. Write a program to find out (i) Total quiz marks of all the quizzes for each student. (ii) Sum of BEST THREE QUIZZES of each student (iii) Student count who got more than 14 in at least TWO quizzes.	15										
3	Consider two dice are tossed. Depending on the sum of two outputs (say, x and y) of the dice, the following rating is given. <table><tr><th>Sum of two dice outputs (x+y)</th><th>Rating</th></tr><tr><td>11-12</td><td>Excellent</td></tr><tr><td>7-10</td><td>Very Good</td></tr><tr><td>4-6</td><td>Good</td></tr><tr><td>2-3</td><td>Poor</td></tr></table> Write a program using switch structure that takes two dice inputs and outputs the rating.	Sum of two dice outputs (x+y)	Rating	11-12	Excellent	7-10	Very Good	4-6	Good	2-3	Poor	8
Sum of two dice outputs (x+y)	Rating											
11-12	Excellent											
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2-3	Poor											
4	What is the output of the following code segment? Show all steps. int I, J, sum = 0; for (I = 0, J = 3; I + J <= 25 ; I++, J = J+3){ if (I == 1) continue; if (J >= 12) break; I = I +1; sum = sum – 2*I + J; } printf(“ I = %d, J = %d, sum = %d”, I, J, sum);	10										
5	Write down a function “ int reverse (int n) ” that takes a positive integer as input parameter and returns the reverse of the given integer (in digit order). For example, if input integer N = 972 , then reversed output is = 279	7										